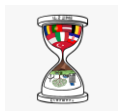




Activity Plan

Title	The Hidden Cost of Denim: Climate Change and Fast Fashion
Teacher	Halaszi Monica
Introduction	The activity targets Sustainable Development Goal 12: Responsible consumption and production.
Outcome	An expected outcome is that students will become aware of the hidden costs of a pair of jeans and how this clothing item contributes to climate change.
Time	50 minutes
Objectives	<ul style="list-style-type: none"> • Students will understand the stages of the life cycle of a pair of jeans. • Students will become aware of the environmental impact of jeans and how this clothing item contributes to climate change. • Students will discover how jeans can be given a new life by turning them into denim accessories.
Methodes	<p>Resources</p> <ul style="list-style-type: none"> - Internet access for: https://ed.ted.com/lessons/the-life-cycle-of-a-pair-of-jeans-madhavi-venkatesan - Blue jeans <p>Methods:</p> <p>Brainstorming</p> <p>Heuristic conversation</p> <p>Problematisation</p>
Description of the activities	<p>Lead-in: "Have you noticed that winters have become warmer lately? We no longer have the traditional Christmas snow, but it's snowing in April? Have you read or maybe seen on the news that the polar icecaps are melting and sea levels are rising? Maybe you've seen on social media that in some regions, extreme weather events and precipitation are becoming more frequent, while other regions are experiencing heat waves, extreme droughts, and uncontrollable wildfires. All of these are undeniable signs that climate change is a reality, and what's even more tragic is that they are caused by human activity."</p> <p>Brainstorming:</p> <p>"Do you think you are also guilty of climate change through your actions?" - They can be asked to raise their hands if they believe they are guilty.</p>





"Let's see what you think contributed to climate change." - The answers will be written on the whiteboard and an attempt will be made to organize them.

Activity 1 (20 minutes)

"Do you think the clothes we wear contribute to climate change?"

Responses are awaited.

"We're going to watch a 4.32-minute film from TED-Ed, and I would like you to pay attention to the information presented."

The students will watch the video [The Life Cycle of a Pair of Jeans by Madhavi Venkatesan](#) (4.32 minutes), which focuses on the life cycle of a pair of jeans/denim pants.

After watching the video:

"What did you think of it?"

"What did you remember from the video?"

The following aspects will be emphasized:

1. Jeans were originally created to be durable, but as they became widely used, their durability decreased.
2. A pair of jeans requires 0.7 kg of cotton = 10,000 liters of water.
3. Cotton cultivation requires not only water but also the use of herbicides and pesticides, which can contaminate groundwater.
4. Harvesting (either manually or mechanically) involves certain costs.
5. Transporting to textile factories involves additional costs and pollution.
6. Spinning cotton involves the use of technology = costs and energy consumption.
7. Combining cotton with plastic fibers and dyeing with synthetic dye = costs + pollution.
8. The manufacturing process (weaving, cutting, sewing) = costs.
9. Additional procedures: use of chemical sprays, acid washing cycles = costs + pollution.





	<p>10. <u>Metal accessories</u> – zippers, buttons, rivets <u>consume resources</u>.</p> <p>11. The process of making <u>a pair of jeans</u> emits over <u>33 kg of carbon</u> (equivalent to <u>110 km traveled by car</u>) – it pollutes and contributes to climate change.</p> <p>12. Jeans production <u>contributes to social inequalities</u> and harms <u>workers' health, water quality, and terrestrial life</u>.</p> <p>"Hmm, jeans are quite dangerous, aren't they? What solutions for reducing the negative effects of jean production have factories identified? What solutions are being proposed to us?"</p> <p>3. Reflection and Activity 2 – groupwork "What solutions do you see?" (The proposals from students will be noted.) "Let's see what we can do with an old pair of jeans to extend the material's durability."</p> <p>Workshop: transforming a pair of jeans into accessories</p>
Conclusions	<p>The activity has a major impact on the students and makes them more environmentally conscious.</p>

